Outdoor Directional Single-band Antenna

ODV-065R18E

- X Pol, 65°Horizontal Beamwidth
- 790-960MHz
- 17.5dBi, E-Tilt: 0-12

Electrical Specifications

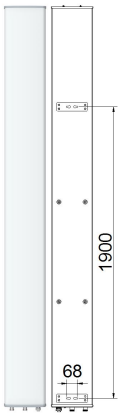
Frequency Range (MHz)	R 790-960	
	790-896	880-960
Polarization	±45°	
Gain (dBi)	17.0	17.5
Horizontal Beamwidth (°)	67	64
Vertical Beamwidth (°)	7.8	7.3
Electrical Downtilt (°)	0-12	
1st Upper Sidelobe Suppression (dB)	≥18(0°), ≥18(4°), ≥17(8°), ≥16(12°)	
Upper Sidelobe Suppression, Peak to 20° (dB)	≥15	
Front-To-Back Ratio, 180°±30° (dB)	≥25	
Cross-polar Discrimination@0° (dB)	≥20	
VSWR	≤1.5:1	
Isolation Intra-system (dB)	≥30	
IM3 (2x43 dBm Carrier) (dBc)	≤-150	
Maximum Power per Port (W)	500	
Impedance (Ω)	50	
Lightning Protection	Direct Ground	

Mechanical Specifications

Dimensions, HxWxD (mm) / (in)	2610x265x120 / 102.8x10.4x4.7
Shipping Dimensions, HxWxD(mm) / (in)	2915x375x250 / 114.8x14.8x9.8
Net Weight, Antenna (kg) / (lb)	22.0 / 48.5
Net Weight, Mounting Kit (kg) / (lb)	5.9 / 13.0
Shipping Weight (kg) / (lb)	35.9 / 79.1
Connector Type	2 x 7/16 DIN-Female
Connector Location	Bottom
Radome Material and Color	UV Resistant PVC, Light Grey
Operational Temperature (°C)	-40 to +60
Operational Humidity (%)	≤95
Operational / Max Wind Speed (km/h)	150 / 200
Wind Load* @150km/h Frontal / Lateral / Rearside (N)	813 / 201 / 971

**Wind Load refer to TIA-222-G standard*

Outline Drawing



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Information contained in this document is subject to confirmation at time of ordering.
Specifications may differ depending on region and customers' requirements.
DS-Control:3-0-8 / 1216

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ODV-065R18E

- X Pol, 65°Horizontal Beamwidth
- 790-960MHz
- 17.5dBi, E-Tilt: 0-12

Electrical Specifications		BASTA Standard**	
Frequency Range (MHz)		R 790-960	
		790-896	880-960
Gain (dBi)	Over All Tilts	16.7±0.5	17.2±0.6
	Min Tilt	17.0	17.5
	Mid Tilt	16.7	17.3
	Max Tilt	16.2	16.7
Horizontal Beamwidth (°)		67±3	64±2
Vertical Beamwidth (°)		7.8±0.6	7.3±0.5
Electrical Downtilt Deviation (°)		≤0.9	≤0.8
1st Upper Sidelobe Suppression (dB)		≥18	≥18
Upper Sidelobe Suppression, Peak to 20° (dB)		≥18	≥17
Front-To-Back Ratio, 180°±30° (dB)		≥29	≥28
Cross-polar Discrimination@0° (dB)		≥22	≥20
Cross-polar Discrimination over Sector (dB)		≥11	≥11

***Values based on NGMN recommendations on Base Station Antenna Standards (BASTA).*

Connector Position

Accessories

Model	Quantity	Description
00-ZJ10(08)	1	Mounting Kit, 0-8°tilt.

Optional Products (order separately)

Model	Quantity	Description
RCU-003(IV)	1	Remote Control Unit
PCU-H002	1	Portable Control Unit

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